SEQUENCE LISTING

```
<110> Hancock, Robert E. W.
          Zhang, Lijuan
    <120> ANTIMICROBIAL PEPTIDES AND METHODS OF
      USE THEREOF
    <130> UBC1170
    <160> 19
    <170> FastSEQ for Windows Version 4.0
    <210> 1
    <211> 17
    <212> PRT
    <213> Limulus polyphemus
H
<400> 1
    Trp Cys Phe Ala Val Cys Arg Arg Gly Arg Cys Arg Tyr Lys Cys Arg
    1
    Arg
N
    <210> 2
    <211> 17
₽
    <212> PRT
<213> Limulus polyphemus
    <400> 2
    Trp Cys Phe Ala Val Cys Tyr Arg Gly Arg Cys Arg Arg Lys Cys Arg
                     5
    1
    Arg
    <210> 3
    <211> 18
    <212> PRT
    <213> Limulus polyphemus
    Phe Arg Trp Cys Phe Arg Val Cys Tyr Lys Gly Arg Cys Arg Tyr Lys
                                         10
    1
    Cys Arg
    <210> 4
    <211> 18
    <212> PRT
    <213> Limulus polyphemus
    <400> 4
    Arg Arg Trp Cys Phe Arg Val Cys Tyr Lys Gly Phe Cys Arg Tyr Lys
                                         10
                                                             15
    1
    Cys Arg
```

```
<210> 5
   <211> 18
   <212> PRT
   <213> Limulus polyphemus
   Arg Arg Trp Cys Phe Arg Val Cys Tyr Arg Gly Phe Cys Arg Tyr Phe
   Cys Arg
   <210> 6
   <211> 18
   <212> PRT
   <213> Limulus polyphemus
   <400> 6
Arg Arg Trp Cys Phe Ile Val Cys Arg Arg Gly Ala Cys Tyr Arg Arg
    Cys Arg
    <210> 7
    <211> 19
    <212> PRT
疆
    <213> Limulus polyphemus
   <400> 7
   Arg Arg Trp Cys Phe Ile Val Cys Arg Arg Gly Arg Cys Tyr Val Ala
1
    Cys Arg Arg
    <210> 8
    <211> 18
    <212> PRT
    <213> Limulus polyphemus
    Arg Val Trp Cys Arg Arg Cys Tyr Arg Gly Phe Cys Arg Tyr Phe
                                        10
    1
    Cys Arg
    <210> 9
    <211> 18
    <212> PRT
    <213> Limulus polyphemus
    <400> 9
    Arg Val Trp Cys Arg Tyr Arg Cys Tyr Arg Gly Phe Cys Arg Arg Phe
                     5
                                        10
    1
    Cys Arg
```

```
<210> 10
   <211> 18
   <212> PRT
   <213> Limulus polyphemus
   Arg Arg Trp Cys Arg Arg Val Cys Tyr Ala Gly Phe Cys Tyr Arg Lys
   Cys Arg
   <210> 11
   <211> 19
   <212> PRT
   <213> Limulus polyphemus
   <400> 11
   Arg Arg Trp Cys Phe Arg Val Cys Tyr Arg Gly Arg Phe Cys Tyr Arg
                                        10
   Lys Cys Arg
<210> 12
    <211> 17
    <212> PRT
    <213> Tachypleus tridentatus
    <400> 12
    Lys Trp Cys Phe Arg Val Cys Tyr Arg Gly Ile Cys Tyr Arg Arg Cys
ij
5
                                         10
    1
    Arg
<210> 13
    <211> 18
    <212> PRT
    <213> Limulus polyphemus
    <400> 13
    Arg Arg Trp Cys Phe Arg Val Cys Tyr Arg Gly Phe Cys Tyr Arg Lys
                                         10
    1
    Cys Arg
    <210> 14
    <211> 17
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> cationic antimicrobial peptide
    <221> VARIANT
    <222> 4
    <223> Xaa = Ala, Val, Ile, Leu, Tyr, Phe or Trp
    <221> VARIANT
```

```
TICHER, CILIBRA
```

```
<222> 7, 13
<223> Xaa = Lys, Arg, His, Phe, Tyr or Trp
<221> VARIANT
<222> 10
\langle 223 \rangle Xaa = Lys, Arg or His
Trp Cys Phe Xaa Val Cys Xaa Arg Gly Xaa Cys Arg Xaa Lys Cys Arg
                                      10
Arg
<210> 15
<211> 18
<212> PRT
<213> Artificial Sequence
<220>
<223> cationic antimicrobial peptide
<221> VARIANT
<222> 1, 12, 16
<223> Xaa = Lys, Arg, His, Phe, Tyr or Trp
<221> VARIANT
<222> 10, 14
\langle 223 \rangle Xaa = Lys, Arg or His
<221> VARIANT
<222> 15
<223> Xaa = Ala, Val, Ile, Leu, Tyr, Phe or Trp
<400> 15
Xaa Arg Trp Cys Phe Arg Val Cys Tyr Xaa Gly Xaa Cys Xaa Xaa Xaa
                   5
 1
Cys Arg
 <210> 16
 <211> 19
 <212> PRT
 <213> Artificial Sequence
 <223> cationic antimicrobial peptide
 <221> VARIANT
 <222> 6
 <223> Xaa = Ala, Val, Ile, Leu, Tyr, Phe or Trp
 <221> VARIANT
 <222> 9
 <223> Xaa = Lys, Arg or His
 <221> VARIANT
 <222> 12, 15, 16
```

```
<223> Xaa = Arg, Val or Ala
   <221> VARIANT
   <222> 19
   <223> Xaa = Lys, Arg, His or is absent
   <400> 16
   Arg Arg Trp Cys Phe Xaa Val Cys Xaa Arg Gly Xaa Cys Tyr Xaa Xaa
                                      10
   Cys Arg Xaa
   <210> 17
   <211> 18
   <212> PRT
   <213> Artificial Sequence
   <220>
<221> VARIANT
   <222> 2, 16
   <223> Xaa = Ala, Val, Ile, Leu, Tyr, Phe or Trp
N
Ħ
   <221> VARIANT
4
   <222> 5, 7, 14
<223> Xaa = Lys, Arg or His
  <221> VARIANT
   <222> 6, 15
   <223> Xaa = Lys, Arg, His, Phe, Tyr or Trp
Arg Xaa Trp Cys Xaa Xaa Xaa Cys Tyr Arg Gly Phe Cys Xaa Xaa Xaa
    1
   Cys Arg
   <210> 18
   <211> 18
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> cationic antimicrobial peptide
   <221> VARIANT
    <222> 5
    <223> Xaa = Lys, Arg or His
    <221> VARIANT
    <222> 10
    <223> Xaa = Ala, Val, Ile, Leu, Tyr, Phe or Trp
    Arg Arg Trp Cys Xaa Arg Val Cys Tyr Xaa Gly Phe Cys Tyr Arg Lys
                                      10
```

Cys Arg